# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 26 june 2025 |
| Team ID | LTVIP2025TMID37102 |
| Project Name | Smart SDLC – AI-Enhanced Software Development Lifecycle |
| Maximum Marks |  |

## **Test Scenarios & Results**

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| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| FT-01 | Requirement File Input Validation | Upload valid and invalid PDF/Word requirement documents | Accepts valid files; shows error for invalid format | Valid PDF and DOCX accepted; error shown for TXT file | ✅ Pass |
| FT-02 | AI Code Generation from Text | Enter user story or instruction and click "Generate Code" | Generates clean, relevant code | Code generated correctly for multiple instructions | ✅ Pass |
| FT-03 | Bug Fix Suggestion | Submit buggy code sample | Shows suggested fix accurately | Bug identified; fix suggestion applied successfully | ✅ Pass |
| FT-04 | Test Case Generation | Submit code snippet and request test cases | Auto-generates relevant unit/integration tests | Unit tests generated for Python, Node.js samples | ✅ Pass |
| FT-05 | Code Summarization | Paste code and click "Summarize" | Provides accurate, concise summary | Summary generated with key logic explanation | ✅ Pass |
| FT-06 | Chatbot Query Handling | Ask code-related or SDLC questions | Provides helpful, accurate responses | Answered SDLC queries with relevant references | ✅ Pass |
| PT-01 | Model Response Time | Track time from prompt to AI response | Should respond within 3 seconds | Response time ~2.1 seconds on average | ✅ Pass |